INTERSERVICE RADIO PROPAGATION LABORATORY NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C.

Issued 21 March 1946

Organized under Joint U.S. Communications Board

National Bureau of Standards

AUG 2 1 1947

IONOSPHERIC DATA ON FILE AT IRPL

This report is a convenient index of all ionospheric data on file in the offices of IRPL as of 1 January 1946. Unless otherwise indicated, solid lines represent daily-hourly tabulations. Broken lines, in general, represent provisional data for which final tabulations are expected. However, when solid and broken lines appear in the same month, the broken lines represent provisional data for which no daily-hourly tabulations are expected. The report can be kept up-to-date by extending the lines on the basis of the ionospheric data presented monthly in the IRPL-F series reports "Ionospheric Data".

Summaries of data on file at IRPL, with few exceptions, consist of average values through December 1944, and of median values wherever that is possible from January 1945 to date. Where values available are averages only, that fact is indicated.

All distances in the muf and M values are in kilometers unless otherwise noted.

The index has been arranged for breaking up into loose-leaf form or into separate sheets for convenient filing. Eight blank pages are included for indexing local data and for keeping additional records.

The following list of stations is covered by the index.

Adak, Alaska	51.9°N,	176.6°W
Alma Ata, U.S.S.R.	43.5°N,	76.5°E
Athens, Greece	38.1°N,	23.9°E
Bad Voeslau, Germany	47.9°N,	16.2°E
Baton Rouge, Louisiana	30.5°N,	91.2°W
Bombay, India	19.00N,	73.0°E
Boston, Massachusetts	42.4°N,	71.2°W
Brisbane, Australia	27.5°S,	153.0°E
Bukhta Tikhaya, U.S.S.R.	80.3°N.	52.8°E
Burghead, Scotland	57.70N,	3.5°W
Cairo, Egypt	30.00N,	31.2°E
Campbell Island	52.5°S,	169.2°E
Canberra, Australia	35.3°S,	149.0°E
Capetown, Union of		
S. Africa	33.9°S,	18.7°E
Cape York, Australia	11.0°S,	142.4°E
Christchurch, N.Z.	43.5°S,	172.6°E
Christmas Island	1.9°N,	157.3°W

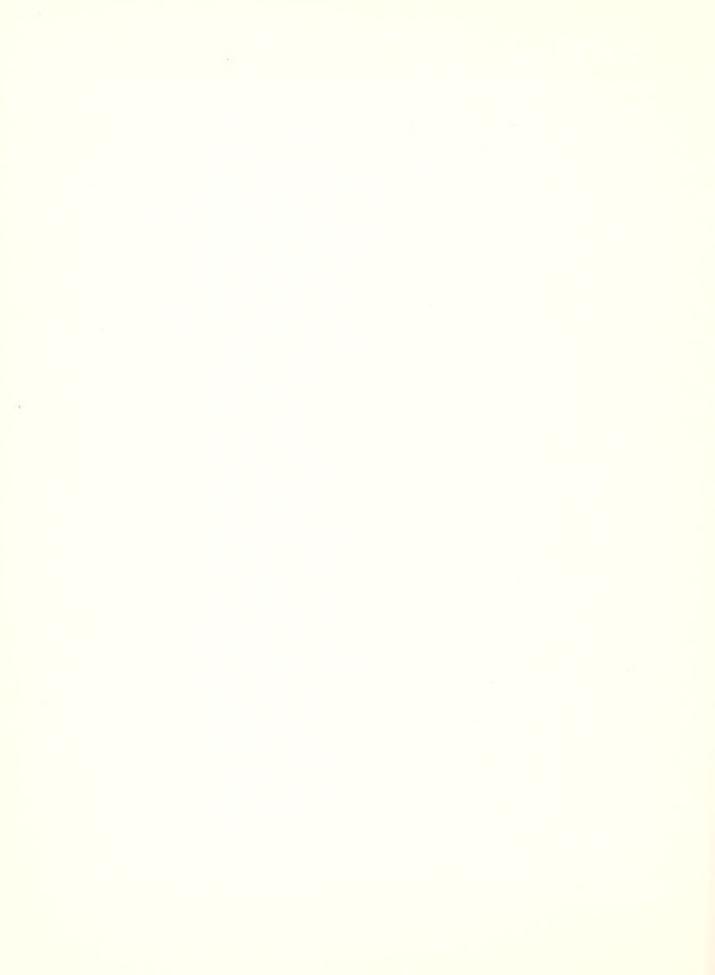
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Chungking, China	29.4°N,	106.8°E	
Churchill, Canada	58.8°N,	94.2°W	
Clyde, Baffin Island	70.5°N,	68.6°W	
Colombo, Ceylon	6.60N,	80.00E	
Deal, New Jersey	74.0°N,	40.2°W	
Delhi, India	28.6°N,	77.2°E	
Fairbanks, Alaska	64.9°N,	147.8°W	
Great Baddow, England	51.7°N,	0.50E	
Guam Island	13.5°N,	144.8°E	
Hobart, Tasmania	43.0°S.	147.3°E	
Hollandia, New Guinea	3.0°S.	140.00E	
Honshu, Japan	35.30N,	135.0°E	
Huancayo, Peru	12.005,	75.39W	
Kermadec Islands	29.205,	177.99W	
Kochel, Germany	47.7°N,	11.4°E	
Kwajalein Atoll	9.00N°	168.0°E	
-	59.70N,	30.5°E	
Leningrad, U.S.S.R.		125.0°E	
Leyte, Philippine Islands	-		
Loshan, China	29.5°N,	103.7°E	
Madras, India	13.0°N,	80.2°E	
Maui, Hawaii	20.8°N,	156.5 W	
Moscow, U.S.S.R.	55.8°N,	37.6°E	
Oslow, Norway	59.90N,	11.0°E	
Ottawa, Canada	45.5°N,	75.8°W	
Palau Islands	25.0°S,	130.0°W	
Peshawar, India	34.0°N,	71.5°E	
Pitcairn Island	25.0°S,	130.0°W	
Prince Rupert, Canada	54.3°N,	130.3°W	
Rarotonga Island	21.4°S,	159.6°W	
Reykjavik, Iceland	64.1°N,	21.70W	
St. Johns, Newfoundland	47.70N,	52.7°W	
Sakhalin Island	46.9°N,	143.0°E	
San Francisco, California	37.40N,	122.2°W	
San Juan, Puerto Rico	18.40N,	66.1°W	
Slough, England	51.5°N,	0.6°W	
Slutsk, U.S.S.R.	59.7°N.	30.5°E	
Snainton, England		0.6°W	
Spitsbergen, Norway	78.2°N,	15.6°E	
Sverdlovsk, U.S.S.R.	56.7°N,	61.1°E	
Syracuse, Sicily	37.10N,	15.2°E	
Tokyo, Japan	35.6°N.	139.6°E	
Tomsk, U.S.S.R.	56.4°N,	85.0°E	
	10.6°N,	61.2°W	
Trinidad, Brit.W. Indies Tromso, Norway	69.6°N,	19.0°E	
	50.8°N,	96.5°W	
Victoria Beach, Canada			
Washington, D.C.	39.00N,	77.50W	
Watheroo, W. Australia	30.3°S,	115.90E	*
Wuchang, China	30.60N,	114 .4 °E	

Adak, Alaska (51.9°N, 176.6°W)

1945 19 f°F2 f°Fı f°E f°E₂ fEs fE₂S fbEs (f°F2)2 f*F2 f*Fi fmin muf: muf F must F muf F rount 100 mur muf. M3500 M3000 M # F2 M3000 * F2 M4000 h F2 HF, KE HE2 h'Es h'Ess hm F2 hmF Absorption Calculated by IRPL

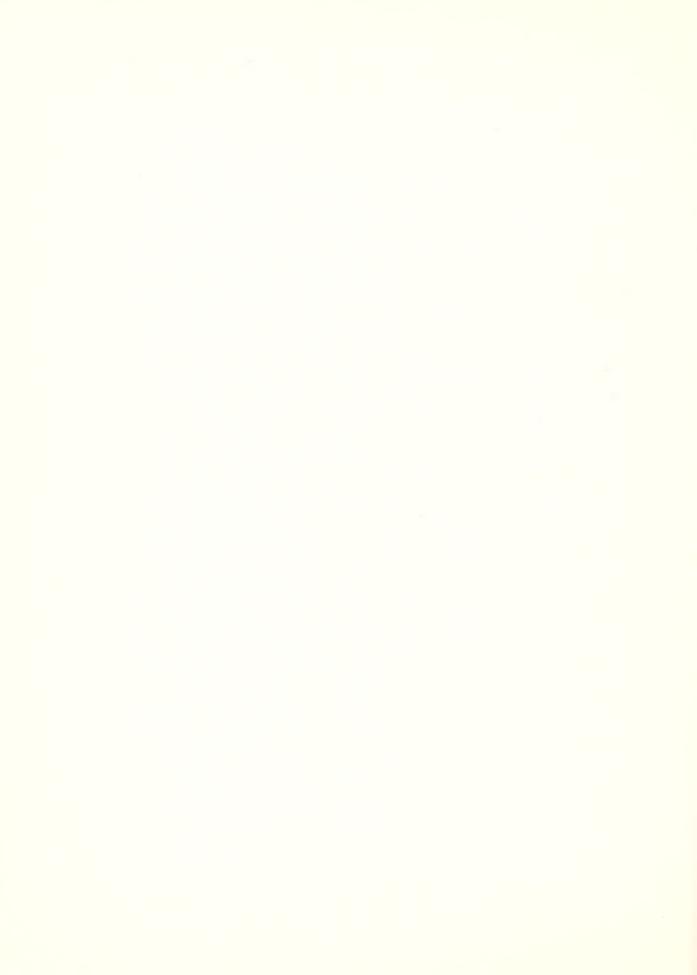
Data began Oct. 5, 1945.



Alma Ata, U.S.S.R. (43.5°N, 76.5°E)

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^{*}Monthly averages by mail.

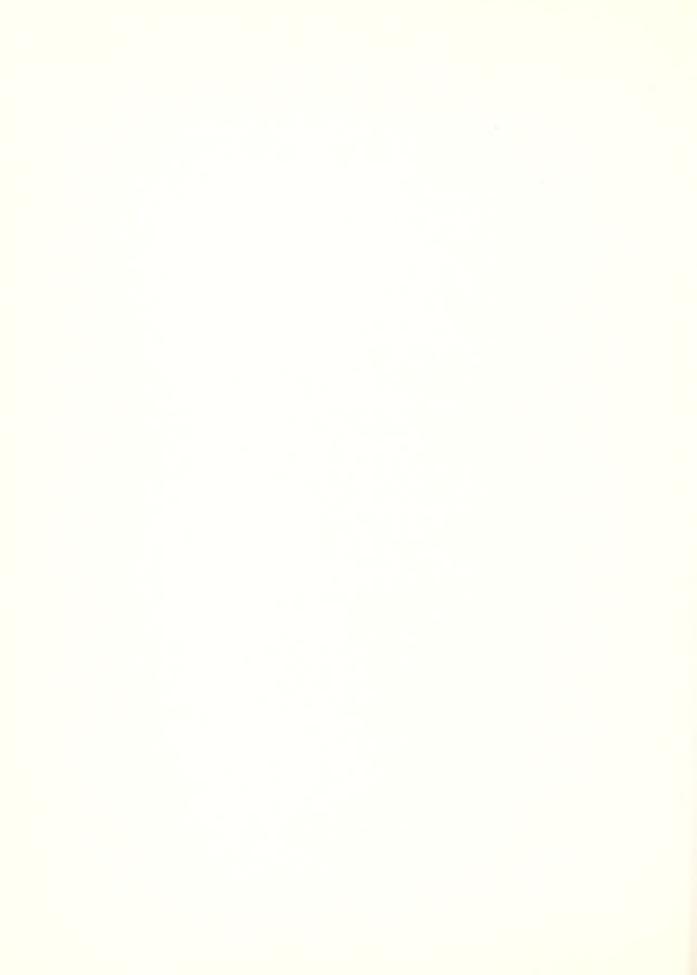


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^{*}December 1943; 13 to 31 only.
Part of a U.S. Army Intelligence Report.

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^{*}July 1943, ½ month only.

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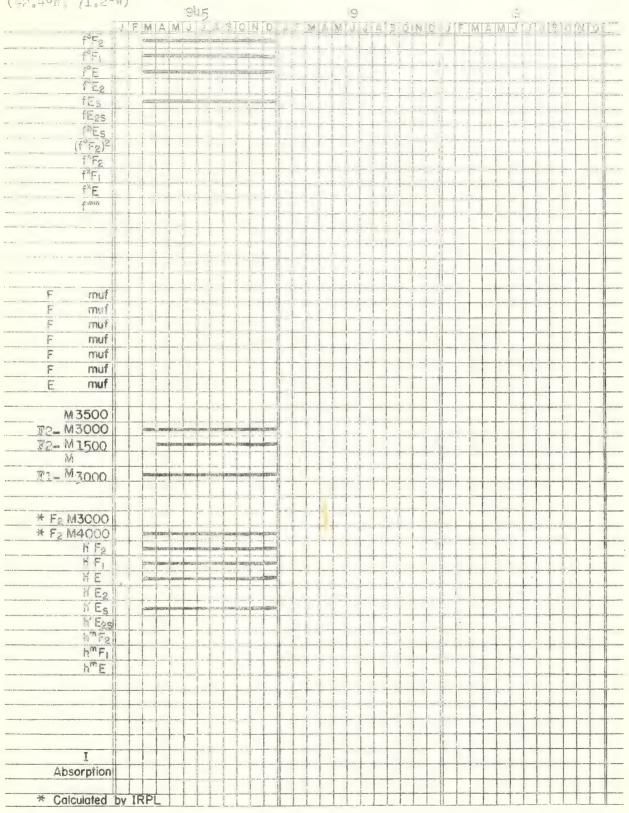


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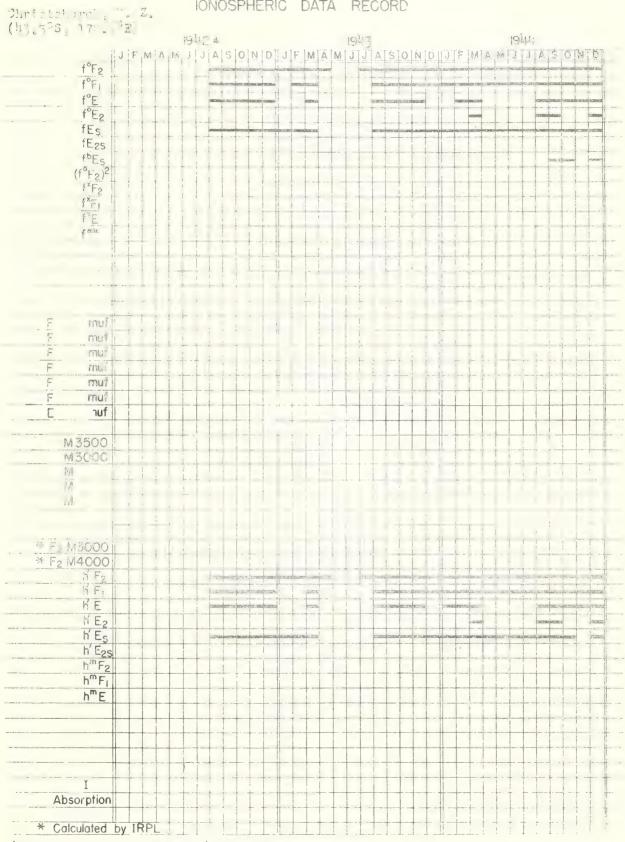
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* Calculated by IRPL





^{*}All data through Jul, 1942, wouthly averages.

After July 1942, values from daily-hourly tabulations.



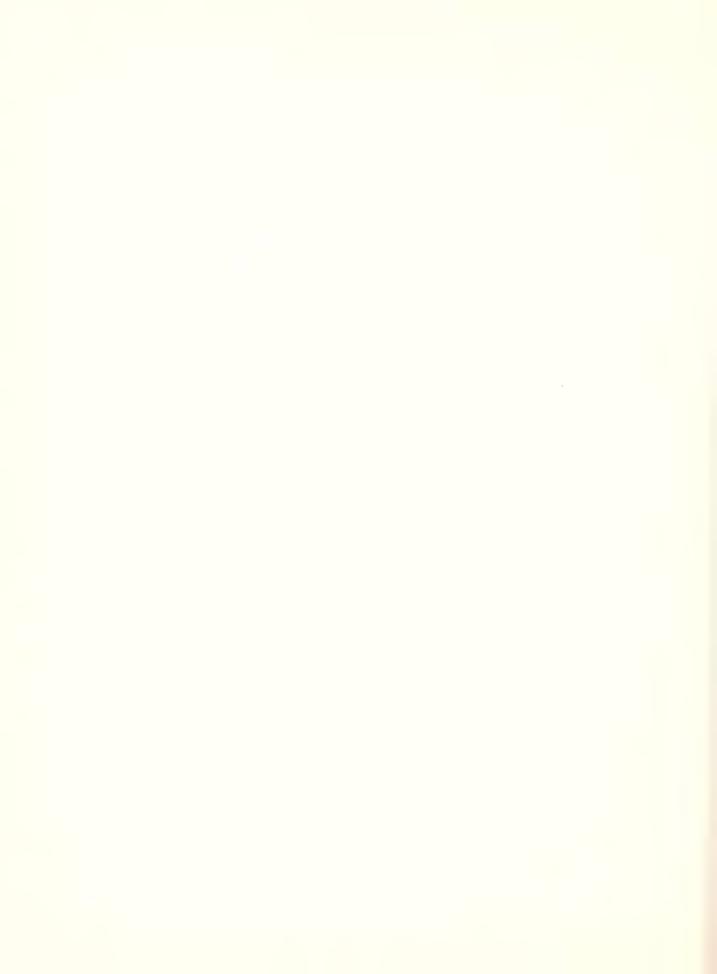
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^{*}All data from Jan. 1939 through July 1942 monthly averages.



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[•]All data through July 1942 monthly averages.



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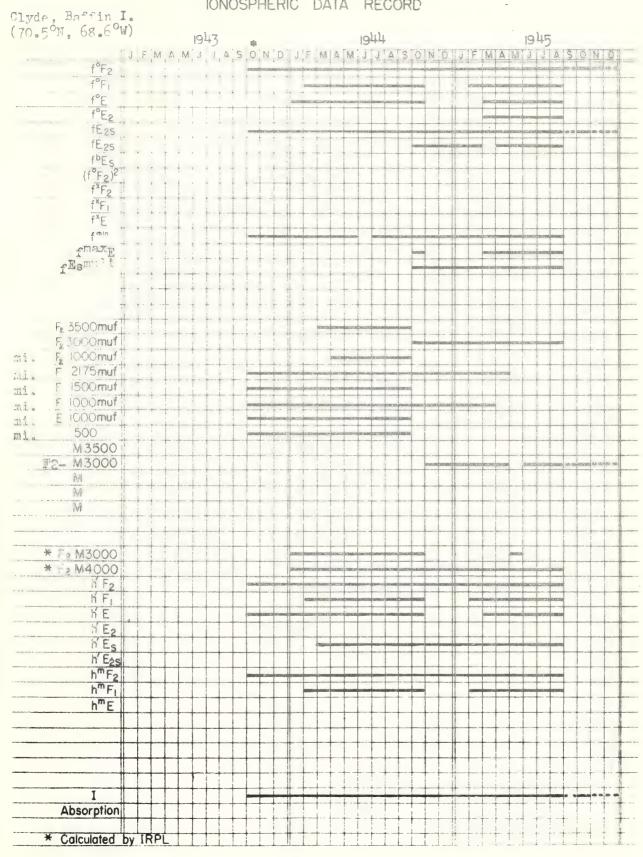
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* Calculated by IRPL



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^{*}Oct. 1943, 8 days only.



Colombo, Ceylon (6.6°M, 80.0°E) f°F2 f°F₁ f°E f°E2 fEs fE₂S fbEs (f°F2)2 fxF2 fxF1 FE € min mui สมา muf Mit je. muf F muf Ε muf M3500 12-1/3000 M M Nº * F2 M3000 * F2 M4000 ΗF₁ HE ME2 h Es h' Egg h^mF₂ hmE Absorption * Calculated by IRPL



Deal, New Jersey 40.2°M, 74°W

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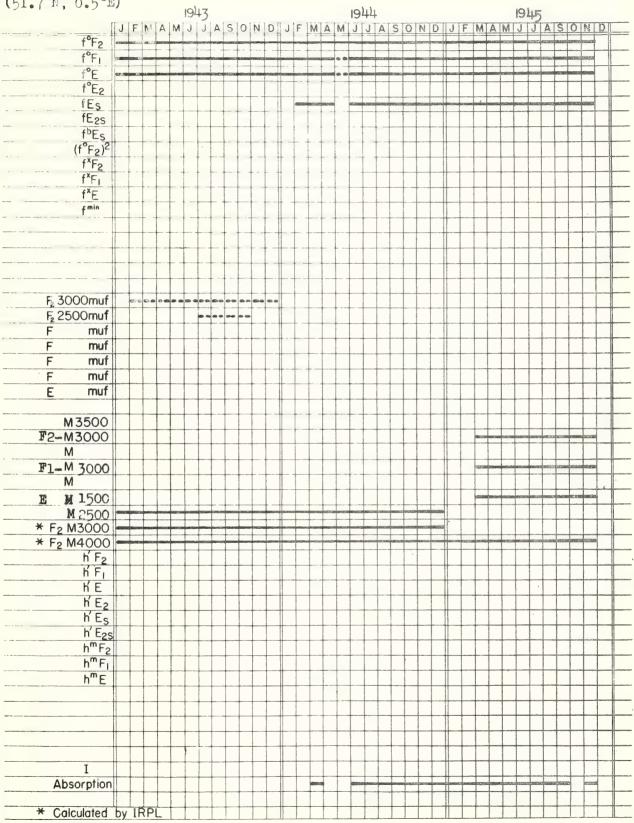
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IONOSPHERIC DATA RECORD Great Baddow, England (51.7°N, 0.5°E) 1940 1941 1942 JEMAMJJASOND JEMAMJJASOND JEMAMJJASOND f°F2 f°Fı f°E f°E2 fEs fE_{2S} fbEs $(f^{\circ}F_2)^2$ f^xF₂ fXFI f^xE muf muf muf F muf muf muf muf M3500 F2-M3000 F2_M 2500 * F₂ M3000 * F₂ M4000 h F₂ K Fi KE KE2 h' Es h' Ezs hm F2 h^mF_i

Absorption

* Calculated by IRPL

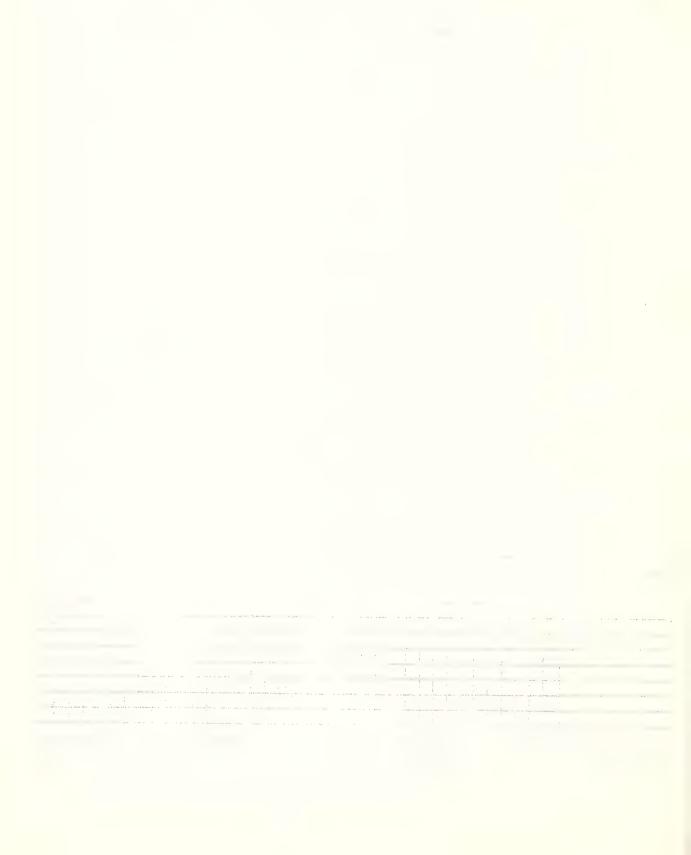
^{*}Nov. 1940 through July 1944, read from graphs. Monthly averages by mail through Dec. 1941. Daily-hourly tabulations since Jan. 1942.

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^{*}December 17 through January 6 only. Daily-hourly tabulations.

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^{*}April 1 to May 15 only. Daily-hourly tabulations.



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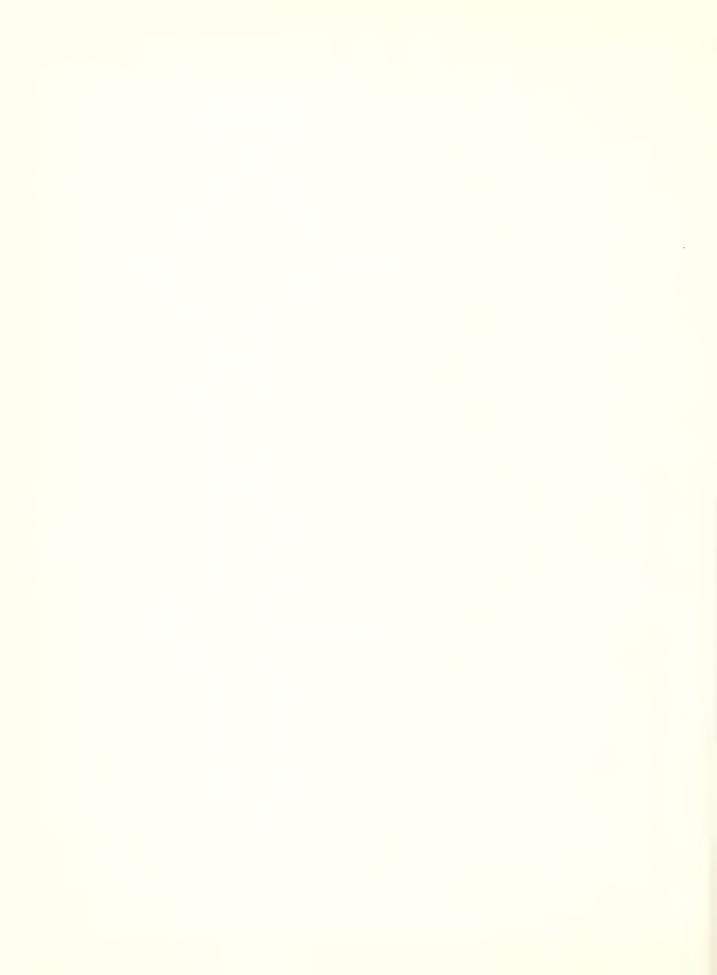
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^{*}Nov. 1937, 17 to 30 only.

To July 1, 1940, monthly averages only.

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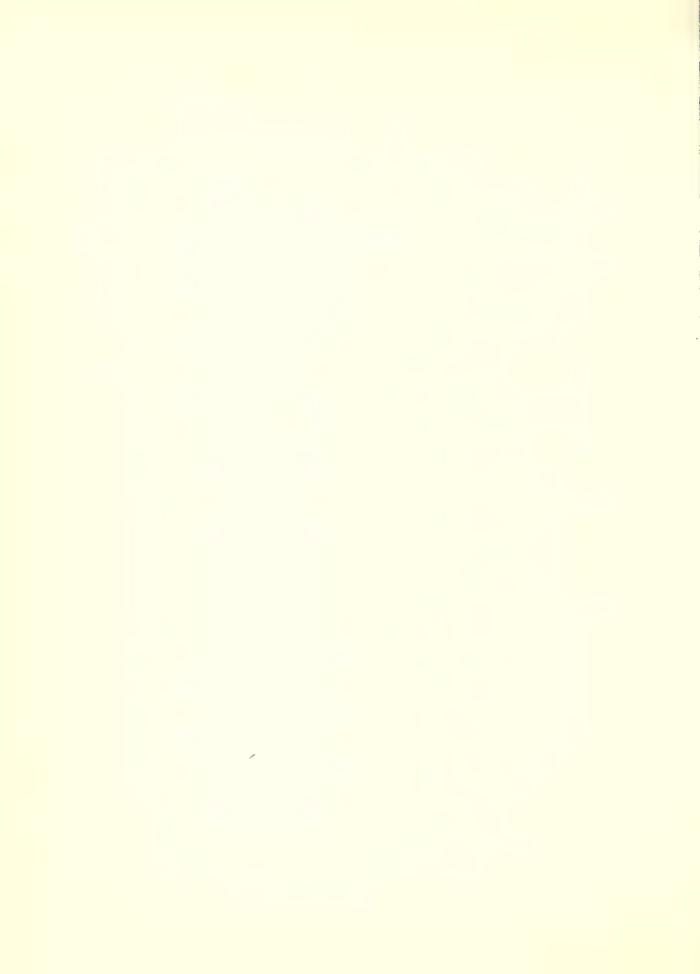
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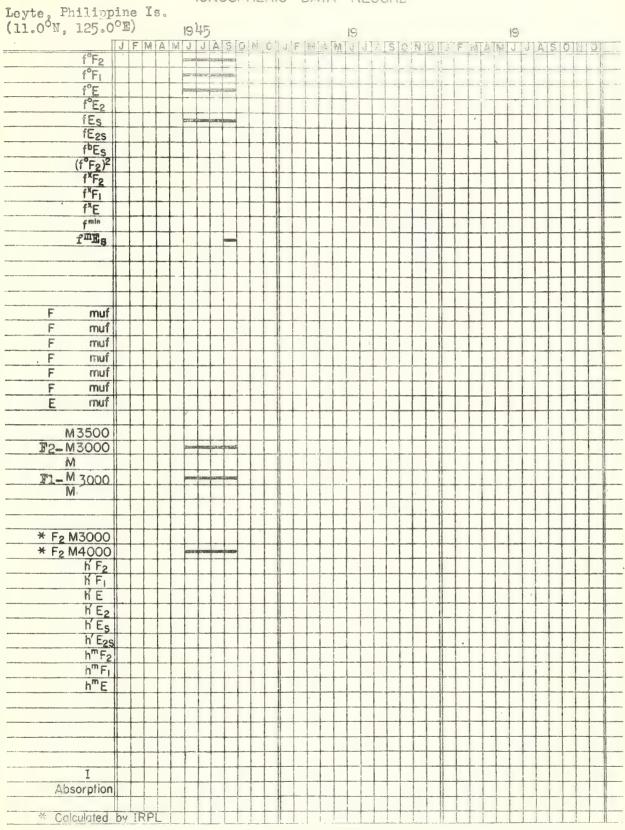
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^{*}From 2000 January 10 to 2300 January 27, 1945, daily-hourly tabulations.



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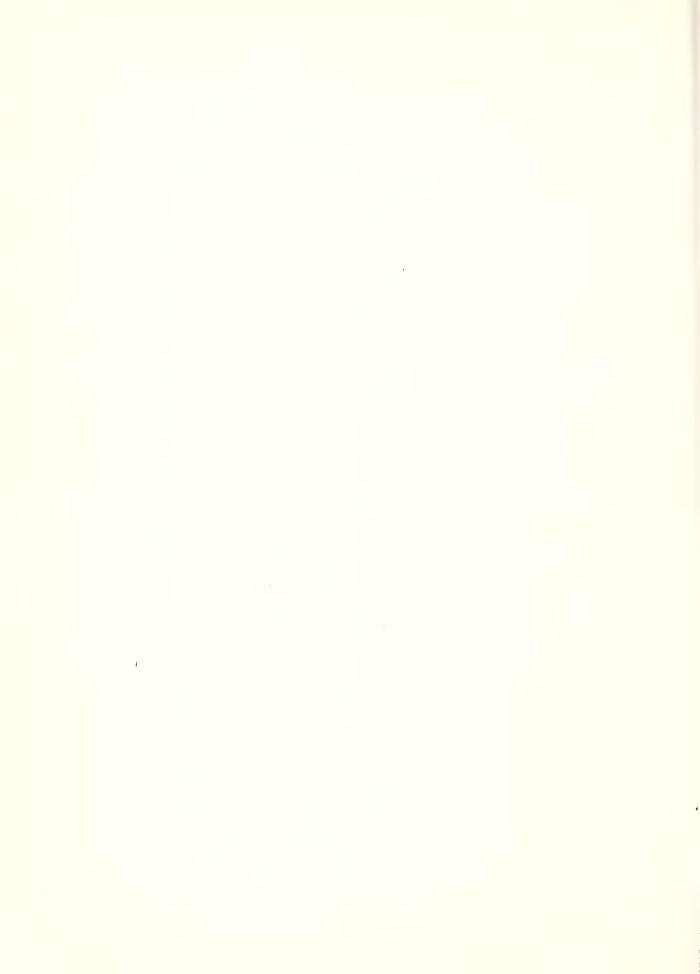




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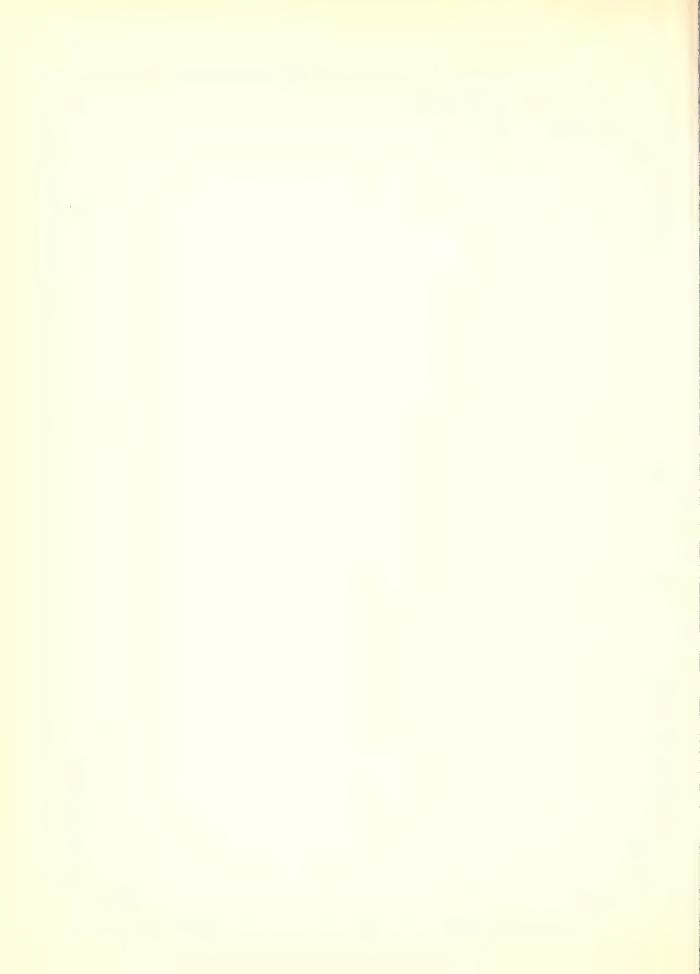


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^{*}June 1945, 0000 to 1130 only.
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IONOSPHERIC DATA RECORD Ottawa, Canada (145.5°N, 75.8°W) 1945 JFMAMJJASONDJFMAMJJASONDJFMAMJJASOND f°F2 f°Fı f°E f°E₂ fEs fE_{2S} fbEs (f°F2)2 f^xF₂ f^XE fmin muf F muf F muf muf F muf muf muf M3500 F2- M3000 М F1- M 3000 M1500 * F₂ M3000 * F₂ M4000 h F₂ K FI КE h E2 h'Es h' E_{2S} h^mF₂ h^mF_l h^mE

Aurora Calculated by IRPL

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Ottawa, Canada (45.5°N, 75.8°W) f°F₁ f°E f°E₂ fEs fE₂S fbEs (f°F₂)² f*F₂ f^xF₁ fXE fmin F₂3500muf F2 3000 muf F₂ 1500 muf muf F muf muf muf M3500 F2-M3000 F1-M 3000 M M * F₂ M3000 * F₂ M4000 h F₂ h F КE h E2 h' E_S h' E_{2S} nmF2 h^mF₁ Aurora Absorption



Palau Is.

(25.0°S, 130.0°W) 1943 19 19 f°Fı f°E f°E₂ fEs fE_{2S} fbEs (f°F₂)² fxF2 fXFI fXE fmin muf muf muf F muf muf F muf muf M3500 M3000 M M M * F₂ M3000 * F₂ M4000 h F2 K F КE ⊬ E2 h'Es h' Ezs h^mF₂ h^mF₁ h^mE Absorption * Calculated by IRPL

^{*}Beginning with June data, station appears to have been moved to some point much farther North. Grephs only.



Peshawar, India (34.0°N, 71.5°E) 1945 19 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D f°F2 f°F₁ f°E₂ fEs fE_{2S} fbEs (f°F₂)² f^xF₂ fXFI f^xE fmin muf F muf F muf F muf muf muf muf F2-M3500 F2-M3000 F2-M 2500 F2-M 2000 F2-M 1500 F2-M 1000 F2-M 500 * F₂ M3000 * F₂ M4000 h F₂ h Fi ΚE h E2 h'Es h' E_{2S} h^mF₂ h^mF_l h^mE hF2 at .83fF2 Absorption * Calculated by IRPL

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To May 31, 1945, monthly averages. Since June 1, 1945, monthly medians. Daily-hourly tabulations to come.



Prince Rupert, Canada (54.3°N, 130.3°W)

Absorption

* Calculated by IRPL

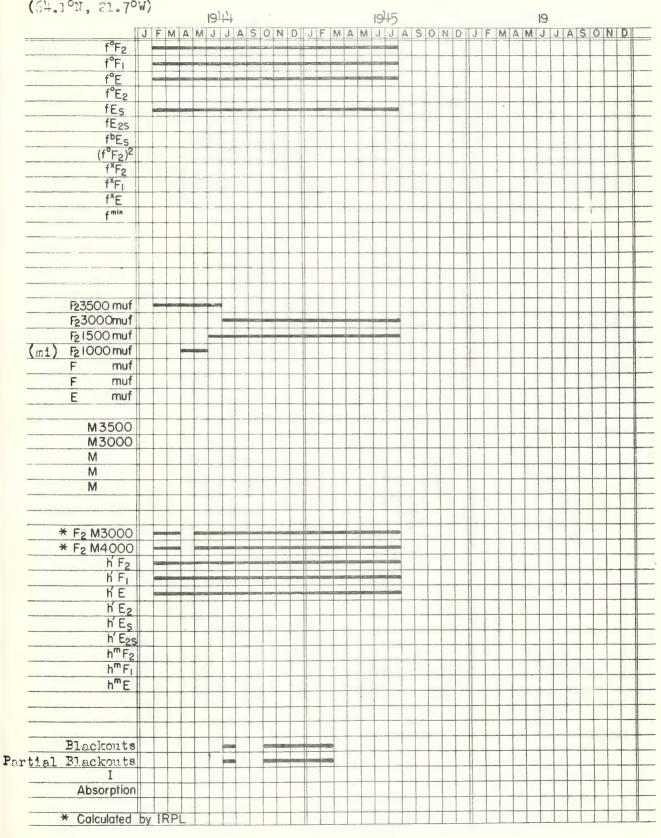
1945 19 JFMAMJJASOND JFMAMJJASOND JFMAMJJASOND f°F2 f°Fı f°E f°E₂ fE_{\$} fE_{2S} fbEs (f°F2)2 f*F2 f^xF₁ f^xE fmin muf muf muf F muf muf F muf Ε muf M3500 F2-M3000 M F1-M3000 E M1500 * F₂ M3000 * F₂ M4000 h F₂ h F ΚE h E2 h' Es h' E₂₅ h^mF₂ h^mE

Rarotonga I.

(21.4°S, 159.6°W) 1945 19 19 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D f°F2 f°F₁ f°E f°E₂ fEs fE_{2S} fbEs (f°F2)2 f^xF₂ fxFI f^XE fmin F23000muf muf F muf F muf F muf F muf muf M3500 M3000 М М M * F₂ M3000 * F₂ M4000 h F2 h F ΚE h E2 h'Es h'E_{2S} h^mF₂ h^mF₁ h^mE Absorption * Calculated by IRPL

To May 31, 1945, monthly averages. From June 1, 1945, monthly medians. Daily-hourly tabulations to come.

Reykjavik, Iceland (64.1°N, 21.7°W)



St. John's, Newfordland IONOSPHERIC DATA RECORD (47.7°W, 52.7°W) 1945 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D f°F₂ f°F₁ f°E f°E₂ fEs fE_{2S} fbEs (f°F2)2 f^xF_2 f^xF₁ $f^{x}E$ $f^{\,min}$ muf muf F muf F muf muf muf muf Ε M3500 F2-M3000 M F1-M 3000 E M 1500 * F₂ M3000 * F₂ M4000 h F₂ K Fi ήE h E₂ h E₃ h' E_{2S} h^mF₂ h^mE

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San Francisco, California ONOSPHERIC DATA RECORD (37.4°N, 122.2°W) 1945 19 19 AMJJASONDJFMAMJJASON f°F1 f°E₂ fEs fE₂₅ fbEs. (f°F2)2 fxF2 f"FI f*E F23000muf F2 1500 muf mit mi F 3000 muf F muf E muf M3500 F2-M3000 F2_M 1500 71-M 3000 137 * F2 M3000 * F2 N4000 h F2 KE HE2 h Es h Egs h^mF₂ hmE

Absorption

* Calculated by IR

San Francisco, California IONOSPHERIC DATA RECORD (37.4°N, 122.2°W) 1944 1942 1943 JEMAMJJASONDJEMAMJJASONDJEMAMJJASOND f°F2 foFI f°E₂ fEs fE_{2S} fbEs (f°F2)2 fxF2 fXFI FE emin F23500 muf (mi) F23500muf hrs(mi) F2 1500 muf muf F muf F muf muf M3500 F2-M3000 F2-M 1500 F1-M 3000 * F₂ M3000 * F₂ M4000 h F2 KF, h E h E2 h Es h Es h^mF₂ h^mF_I Absorption * Calculated by IRPL

^{0-1942,} monthly averages.

^{*-1943} and following, daily tabulations.

IONOSPHERIC DATA RECORD San Juan, Puerto Rico (1g.4°N, 66.1°W) 19 144 1945 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D f°Fı f°E f°E2 fEs fE_{2S} fbEs (f°F₂)² f^xF₂ fXFI f^xE fmin F23500muf F₂I500muf F₂3000muf muf F₁3000muf F muf E muf M3500 F2-M3000 M F1-M 3000 M *F1 M4000 * F₂ M3000 * F₂ M4000 h F2 h Fi ΚE h E2 h Es h' Ezs h^mF₂ h^mF_l · h^mE I Absorption

* Calculated by IRPL

^{*15} min. readings because of eclipse.

San Juan, Puerto Rico (1g.40N, 66.10W)

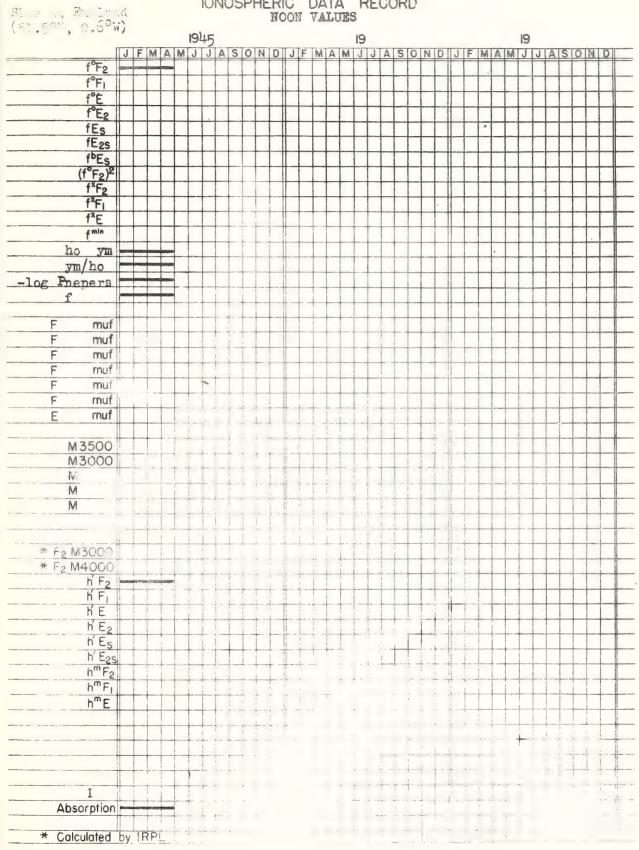
1943 1941 1942 JEMANJJASOND JEMANJJASOND JEMANJJASOND JEMANJJASOND f°Fı f°E f°E2 fEs fE₂S fbEs (f°F2)2 f^xF₂ fXF1 fXE fmin F₂3500muf F21500 muf muf F muf F muf F muf muf E F M3500 F M3000 F M 1500 F M3000 F M4000 * F₂ M3000 * F2 M4000 h F2 K F ΚE h E2 h'Es h' Ezs h^mF₂ h^mF_I h^mE Absorption * Calculated by IRPL



Slough, England (51.5°N, 0.6°W)

1944 1945 19 JEMAMUJUASONDIJEMAMUJUASONDIJEMAMUJUASOND f°Fı f°E f°E2 fEs fE_{2S} fbEs (f°F₂)² f^xF₂ fXFL f^xE fmin Ym/ho muf muf muf muf muf muf muf M3500 + F2-M3000 M M * F₂ M3000 * F₂ M4000 h F₂ K FI ήE h E2 h' E₂s h^mF₂ h^mF_l Absorption * Calculated by IRPL

IONOSPHERIC DATA RECORD NOON VALUES



Slough, England (51.5°N, 0.6°W)

IONOSPHERIC DATA RECORD NOON VALUES

1942 1943 1944 JFMAMJJASOND JFMAMJJASOND JFMAMJJASOND f°F2 f°Fi f°E f°E₂ fEs fE_{2S} fbEs (f°F2)2 f^xF₂ fXFL fmin ho ym -log Phepers F muf F muf F muf F muf muf muf F muf M3500 M3000 M М M * F₂ M3000 * F2 M4000 h F₂ K F KE HE2 h'Es h' Eas h^mF₂ h^mE Absorption * Calculated by IRPL



Slough, England (51.50w) NOON VALUES W) 1939 1940 1941 JEMAMJJASONDJEMAMJJASOND f°F₁ f°E f°E2 fEs fE₂₅ PhF. me" mu1 mit muf muf ·F muf muf M3500 M3000 M * F₂ M3000 * F₂ M4000 h F2 h Fi ΗE h E2 h' E_S h' E_{2S} h^m F₂ h^mF_l Absorption * Calculated by IRPL



Slutsk, U.S.S.R. (59.7°N, 30.5°E)

1939 1940 1941 INFMAMINIASIONO DE MAMINIAS DE DIDENAMINISONO f°FI f°E f°E₂ fEs fE_{2S} fbEs (f°F2)2 f^xF₂ fXFI ¢ min muf F muf F muf muf muf F muf E muf M3500 M3000 M M * F₂ M3000 * F₂ M4000 h F₂ H KE KE2 h'Es h'Ezs h^mF₂ h^mF_l hmE Absorption * Calculated by IRPL

IONOSPHERIC DATA RECORD Snainton, England (54.2°N, 0.6°W) 19/1/1 19 IJFMAMJJASONDJFMAMJJASONDJFMAMJJASOND f°F2 f°F₁ f°E f°E2 fEs fE_{2S} fbEs (f°F2)2 f^xF₂ f^XF₁ fmin muf F muf F muf F muf muf F muf E muf M3500 M3000 M M M * F₂ M3000 * F₂ M4000 h F2 K F KE K E2 h'Es h Egg h^mF₂ h^mE **Absorption**

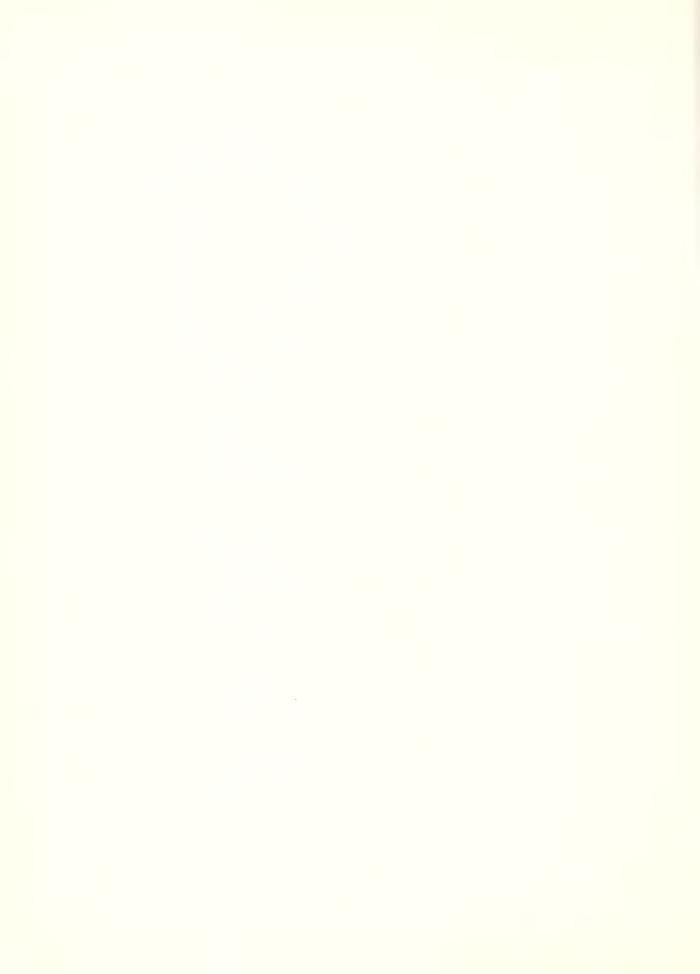
* Calculated by IRPL

^{*}Telephone data only.



Spitsbergen, Norway (78.2°N, 15.6°E) 1942

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Sverdlovsk, U.S.S.R.

(56.7°N, 61.1°E) 1944 1945 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D f°F2 f°Fı f°E f°E2 fEs fE_{2S} fbEs (f°F2)2 fxF2 # min muf muf F muf F muf muf muf F muf M3500 M3000 M * F2 M3000 * F₂ M4000 h F₂ K FL KE HE2 h'Es h' Ezs hmF2 h^mF₁ h^mE Absorption * Calculated by IRPL

For all months f°F2 daily-hourly tabulations. Others monthly averages. Capril 1944, noon f°F2 and min f°F2 for 20 days only.

Syracuse, Sicily (37.10N, 15.20E) 1942 1943 JEMAM JJASONDJEMAM JJASONDJEMAN JJASOND f°F f°E2 fEs fE23 FDES (f°F2)2 f Fg FAF FRE muf F muf F muf F muf F muf mui F E muf. M3500 M3000 M M * F2 M3000 * F2 M4000 h Fa KF; HE HEZ h Es H Ezs h^mF₂ hmF

* Calculated by TRPL Part of a U.S. Army Intelligence Beport.

Absorption

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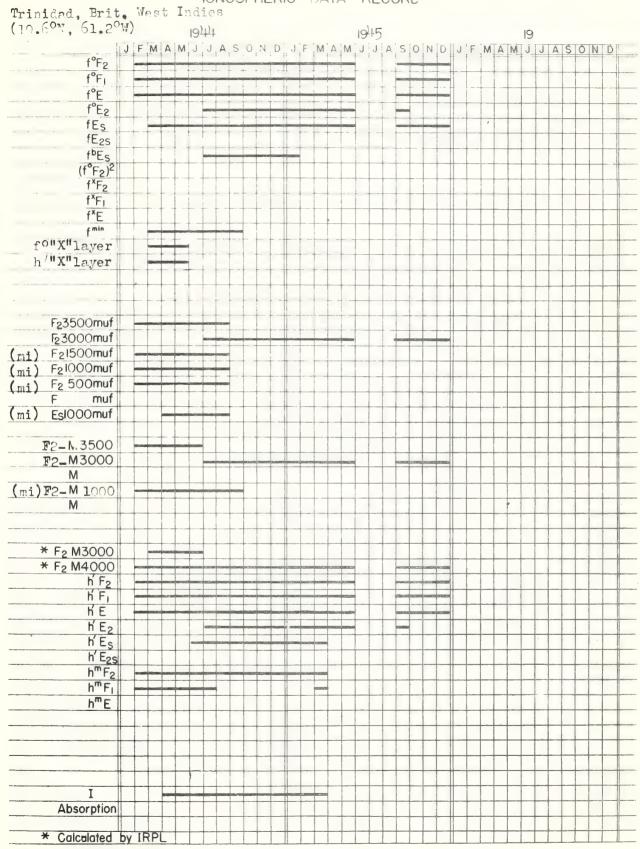
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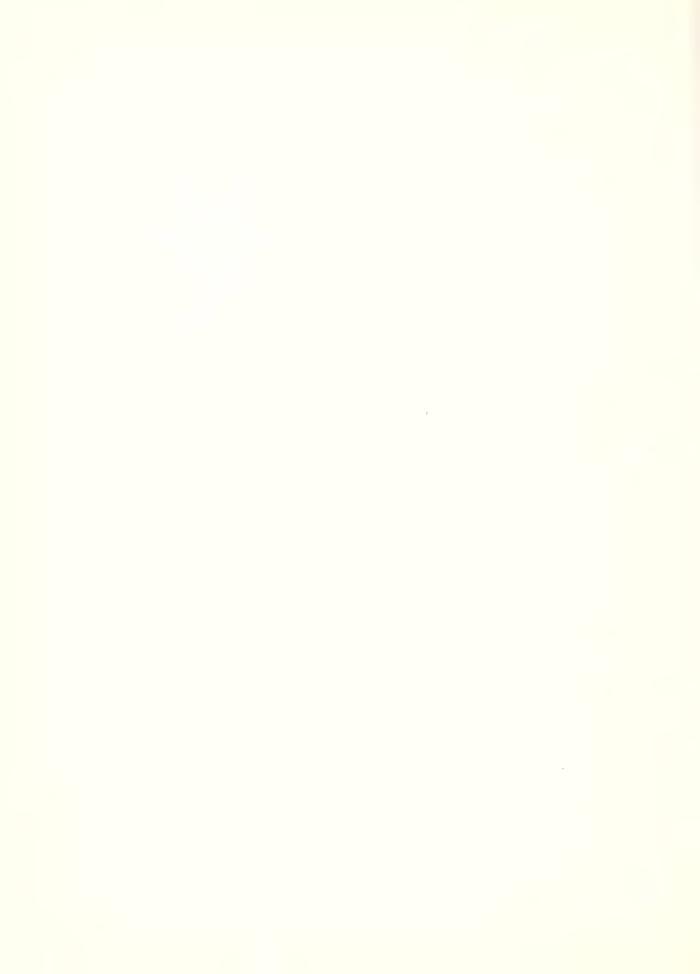
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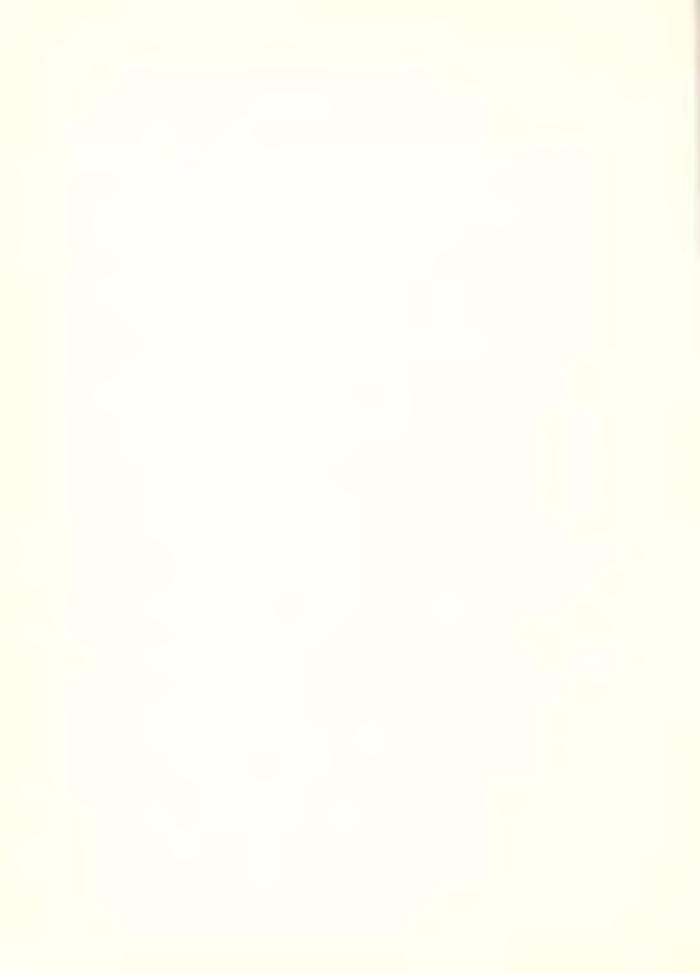
Aug. 1943, results erratic due to storms
Part of a U.S. Army Intelligence Report (through 1944).



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Washington, D. C. (39.0°N, 77.5°W)

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Washington, D. C. (39.0°N, 77.5°W) 1940 1947 1939 J F M A M J J A S O N D J F M A M J J A S O N C J F M A M J J A S O N D f°F2 f°F₁ f°E f°E2 fEs fE_{2S} fbEs (f°F₂)² f^xF₂ f^xF₁ fXE fmin hourly f°F2
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Washington, D. C. (39.0°N, 77.5°W) 1936 1937 1938 JEMAMJJASONDJEMAMJJASONDJEMAMJJASOND f°F₁ f°E2 fEs fE_{2S} fbEs (f°F2)2 fxF2 fxF1 FRE f mia muf MUS Mil 1 Fast muf muf muf M3500 M3000 W M M * F₂ M3000 * F₂ M4000 h F2 h Fi KE HE2 h'Es h' E2s h^mF₂ h^mF_I Absorption * Calculated by IRPL

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IONOSPHERIC DATA RECORD

Watheroo, W. Australia. (Lat. 30.3°S, 115.9°E) 1944 19/15 19 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D f°Fı f°E f°E2 fEs fE_{2S} fbEs (f°F₂)² f^xF₂ f^XF_I fXE fmin F23500muf F23000muf muf muf F muf F muf E muf M3500 F2- M3000 Μ M * F₂ M3000 * F₂ M4000 h F₂ h F h E h E2 h'Es h' E2s h^mF₁ h^mE HF2 (upper) hFl (upper) Absorption * Calculated by IRPL



IONOSPHERIC DATA RECORD

Watheroo, W. Australia (30.30S, 115.90E) 1943 1941 1945 JFMAMJJASONDJFMAMJJASONDJFMAMJJASOND f°F1 FOE f"Eg 1Es fEgs fbEs (f°Fe)² f"Fe f^Fi FE F23500mut **F3000muf** Fe1500mul Fa 1000mus F2 500mm mur FTW. M3500 M3000 M M * Fg M3000 * Fg M4000 h Fg K F KE HE2 h Es h Eas hmF2 hmFi h^mE hF2 (upper) hFl (upper) Absorption

* Calculated by IRPL



Watheroo, W. Australia (30.3°S, 115.9°E) 1938 1939 JEMAMJJASOND JEMAMJJASOND JEMAMJJAS I f°F2 f°Fı f°E f°E2 fEs fE28 fbEs (f°F2)2 fxF2 f*FL FXE e min muf F muf muf muf muf muf muf M3500 M3000 M М M * F2 M3000 * F₂ M4000 h F₂ h Fi KE HE2 h' Es h' Ezs h^mF₂ h^mF₁ Absorption

To July 1, 1940, monthly averages only. Since July 1, 1940, daily-hourly tabulations.

* Calculated by IRPL

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Watheroo, W. Australia

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^{*}To July 1940, monthly averages only.



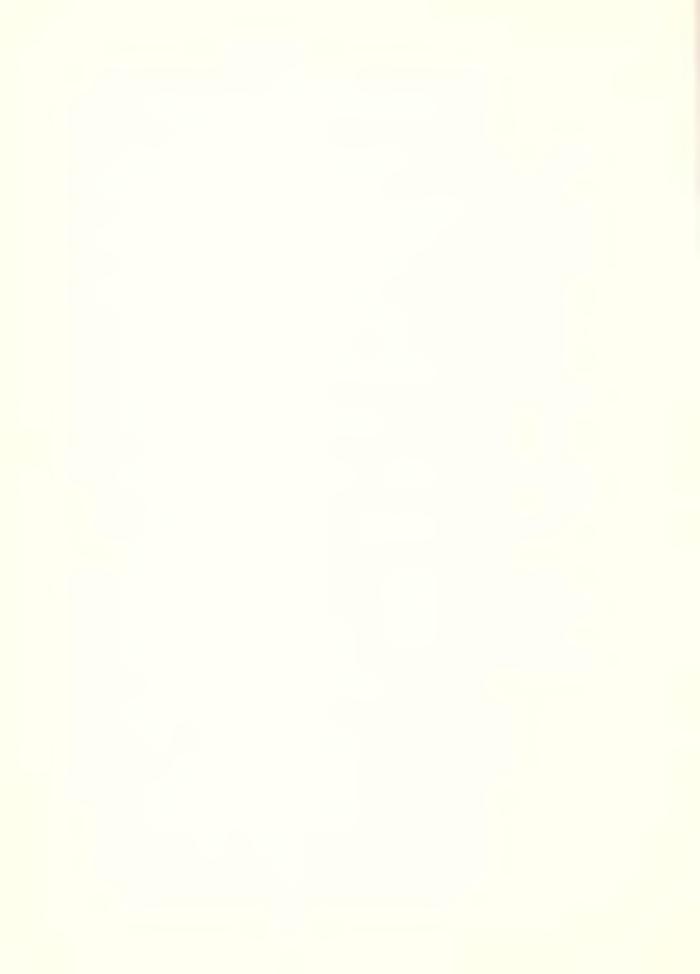
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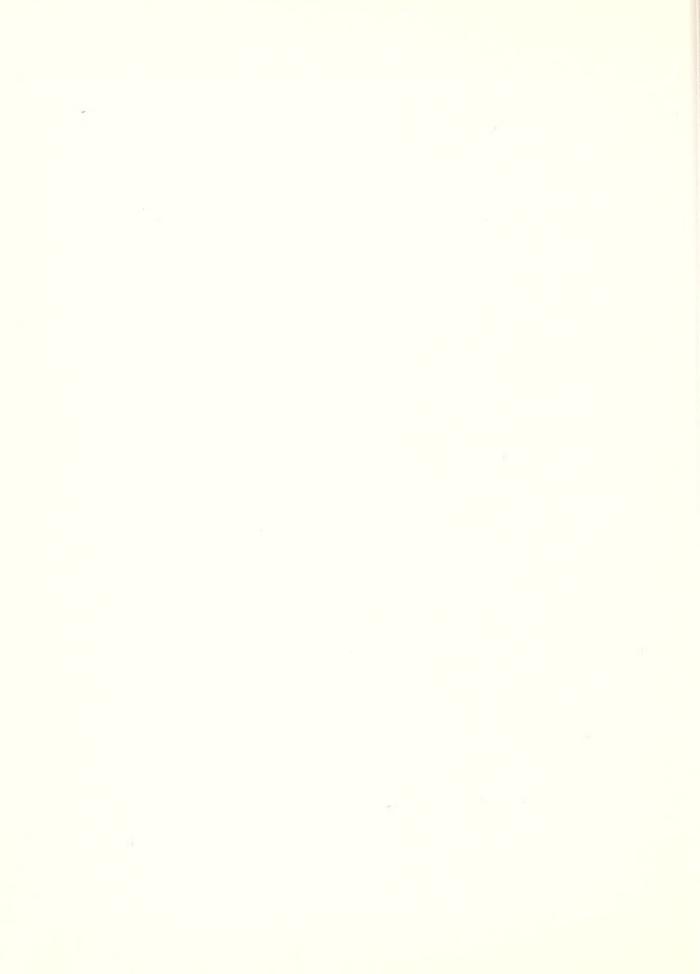
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